

Fig. 1

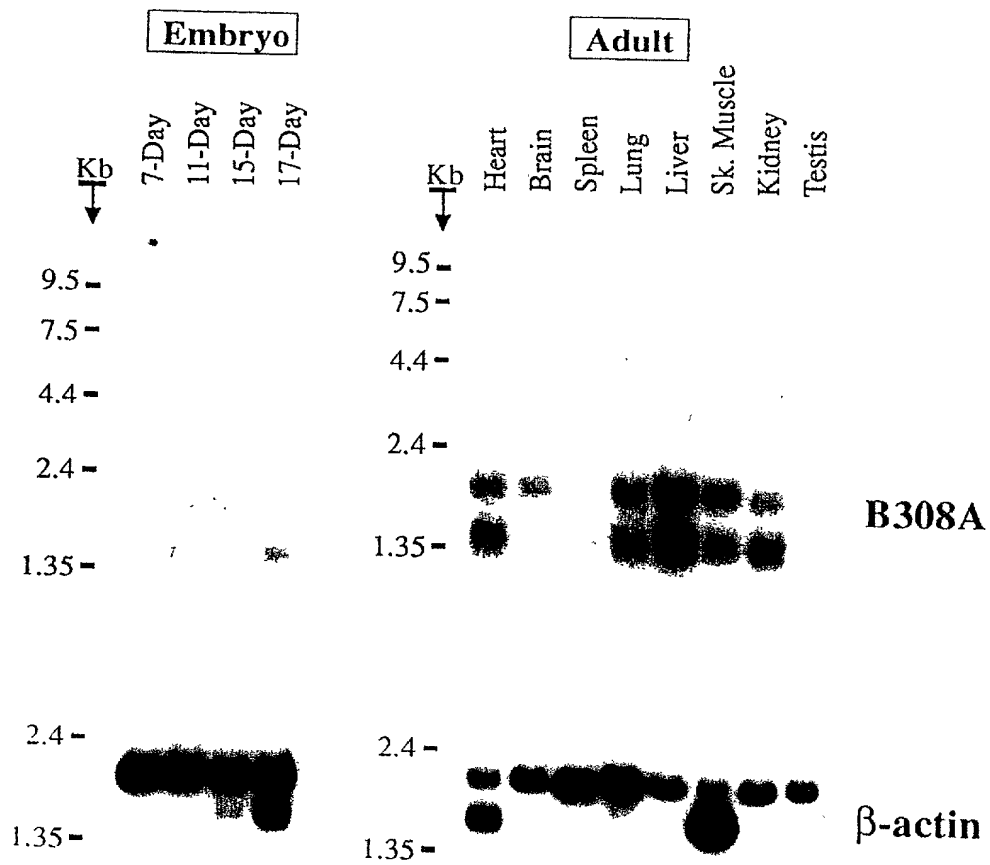


Fig. 2

1 TTGCCCTCAA CAAAGATGGT CTTTATGGTA CAGGTTCCCT AGCAGTCTGG  
 51 ATTCCGGTTG TAGTTTTAGT TATCTTTTTT TTTTTTTTTT TAAACGGTAC  
 101 GTGGTCGCAG ACGAAGAAAT GGAAGCCAGA GACAAGCAGG TACTCCGCTC  
 151 CCTGCGTCTG GAGCTGGGTG CCGAGGTACT GGTGGAAGGA CTGGTTCTTC  
 201 AGTACCTTTA CCAGGAAGGA ATTTTGACAG AAAACCACAT TCAAGAAATC  
 251 AAAGCTCAAA CCACAGGCCT CCGGAAGACA ATGCTGTTGC TGGACATCCT  
 301 GCCTTCCAGG GGCCCCAAAG CTTTGTGACG CTCCTCGAT TCCCTCCAGG  
 351 AATTTCCCTG GGTAAGAGAG AAGCTGGAGA AGGCGAGAGA GGAAGTCTCA  
 401 GCCGAGCTGC CTACAGGTGA CTGGATGGCC GGAATCCCCT CACACATCCT  
 451 CAGCAGCTCG CCATCAGACC AGCAGATTAA CCAGCTGGCT CAGAGGCTAG  
 501 GCCCGGAGTG GGAGCCCGTG GTCCTGTCTC TGGGACTGTC CCAGACCGAC  
 551 ATCTACCGCT GCAAGGCCAA CCATCCCCAC AACGTGCATT CGCAGGTGGT  
 601 GGAGGCCTTT GTCCGCTGGC GCCAGCGTTT TGGGAAGCAG GCCACCTTCC  
 651 TAAGCTTACA CAAGGGCCTC CAGGCAATGG AGGCTGATCC CTCCCTGCTC  
 701 CAGCACATGC tGGAGTGACC TGACCCCCC CCGCGCCCC CCCCCACTTG  
 751 CTGTGGGGGT GGTGGGGCGT GGGTTCCAA GTCACACTGG CTGAACCGGA  
 801 CTTTTCTCAG CAGGTGGCTT TGTCTGGGC TTTTCAGTA TCTGTTTACG  
 851 GAAAGAGATC GTCCACCACT CACTCAACCA TCGATTGGCT TTAATTGCTT  
 901 GAAGACTGCG CTGTTGTAAC TATGGTTTGG AACTTTGTGG CTGGCCTTTA  
 951 ACAGGAGGCC AGAAAAAACA CAACCCAC CCTACCCAAC CCCCCAAAAA  
 1001 ATCATGCTAC AGCATCGAAT GCAGGTGTCC TGCATACAAG GCAGCTACAC  
 1051 TTGTGTTGCC TGGAGACTGG ATTGTGCATT TAGCTCTTCA TAATGGTGAT  
 1101 GATAATAAAA AAGCAAATTG TGATATAGAA TGTGCCTCTT TCAATGAGAG  
 1151 AGTATTATAT CACACACACA CACACACACA CACACACACA TACACACACA  
 1201 CACACCAATC TTCTGTTGCA TAGACGGAGG GTGTAAAAAT ATGGGAGTGG  
 1251 AGCAAGATTG ATAGCAGTCA TGTGACGACG GAGATAAATA ACTCAGGCAG  
 1301 GATGTATAGA TTAAGCATGA GACACCGAAG CTCCTGCAG AGGCCAGGGA  
 1351 GAGAACGGAA GACCTTCATC TTAACAAATT GTATGAGGAG TCTCTGTCCA  
 1401 TTTGTTAAAG GCATTGGATC AGAGACAAGA GGGCTCAGTG TTTCTCTTGA  
 1451 GGCCTGAATG GCTGAAGGCG GTGAGTTCCC GAGGGGCGTC ATGGGTTGTC  
 1501 CAGCCTTTCA TTAAGTCAC ATAGTGTTAG CCAGACAGGT GTACGTGTTT  
 1551 GTCATCCCAT CTAAGAGACT GAAGCAGGAG GATCACCTGT ACATGACTGC  
 1601 TTCTTTCAAC ATTTTAAAAAT GTGTAACCTC TATTAAATTC TCTCAGTGCA  
 1651 AAAAAAAAAA AAAAAAA

*Fig. 3A*

MEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEIKAQTTG  
 LRKTMILLDILPSRGPKAFDTFLDSLQEFPPWREKLEKAREEVSAELPTG  
 DWMAGIPSHILSSSPSDQQINQLAQRLGPEWEPVVLISLGLSQTDIYRCKA  
 NHPHNVHSQVVEAFVRWRQRFQKQATFLSLHKGLQAMEADPSLLQHMLE"

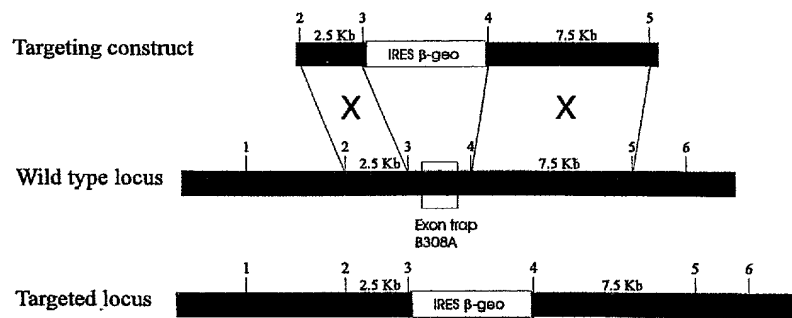
*Fig. 3B*

(1) →  
 1 GAAGAAATGG AAGCCAGAGA CAAGCAGGTA CTCCGCTCCC TGCCTCTGGA  
 (2) →  
 51 GCTGGGTGCC GAGGTACTGG TGGAAGGACT GGTCTTTCAG TACCTTTACC  
 101 AGGAAGGAAT TTTGACAGAA AACCACATTC AAGAAATCAA AGCTCAAACC ←  
 (3) ←  
 151 ACAGGCCTCC GGAAGACAAT GCTGTTGCTG GACATCCTGC CTTCCAGGGG  
 (4) ←  
 201 CCCCAAAGCT TTTGACACCT TCCTCGATTC CCTCCAGGAA TTTCCCTGGG  
 251 TAAGAGAGAA GCTGGAGAAG GCGAGAGAGG AAGTCTCAGC CGAGCTGCCT  
 301 ACAG

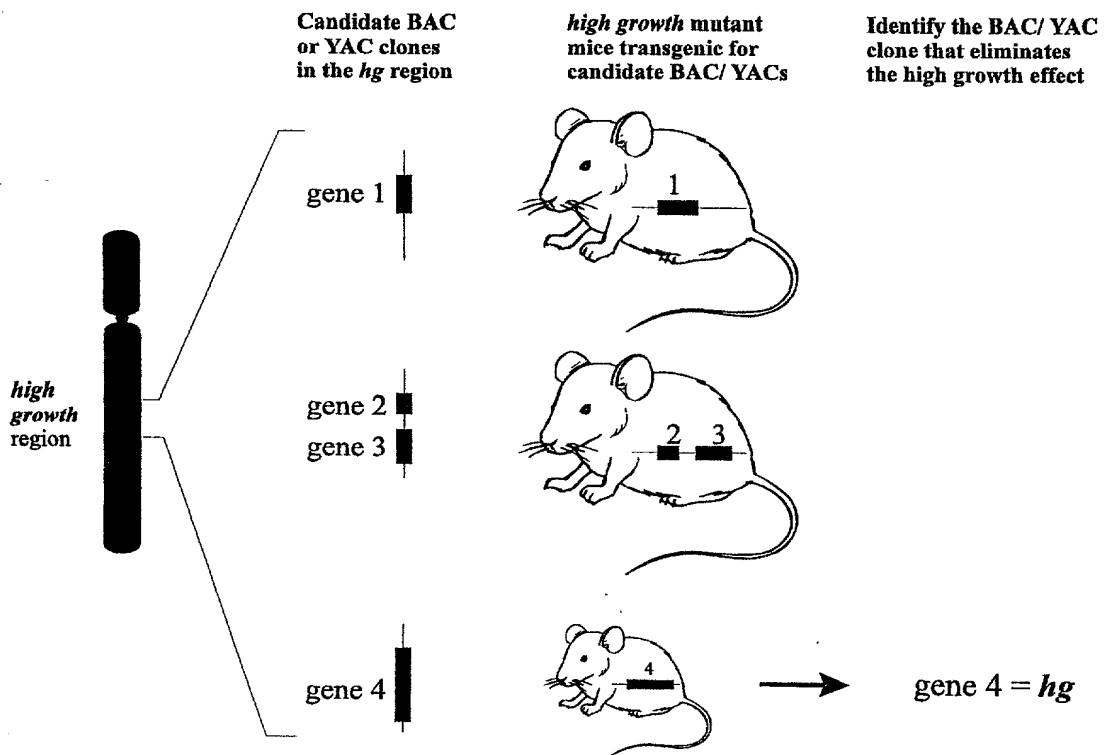
*Fig. 4*

1 ggaaatggag gctagagaca agcaagtgct tcgctccctt cgcctggagt  
 51 tgggtgcaga ggtactggtg gaggggctag tcctccagta tctttatcag  
 101 gaaggggtct tgacagaaag ccacgttcaa gaaattaaag ctcaagccac  
 151 aggcctccgg

*Fig. 5*



**Fig.6**



**Fig. 7**

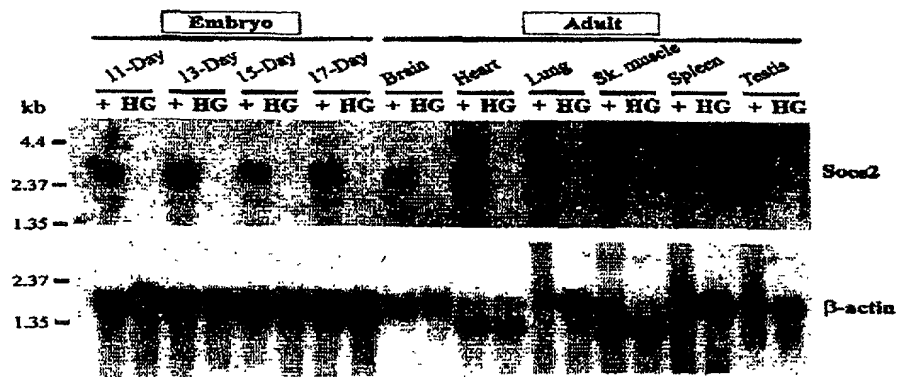


Fig. 8

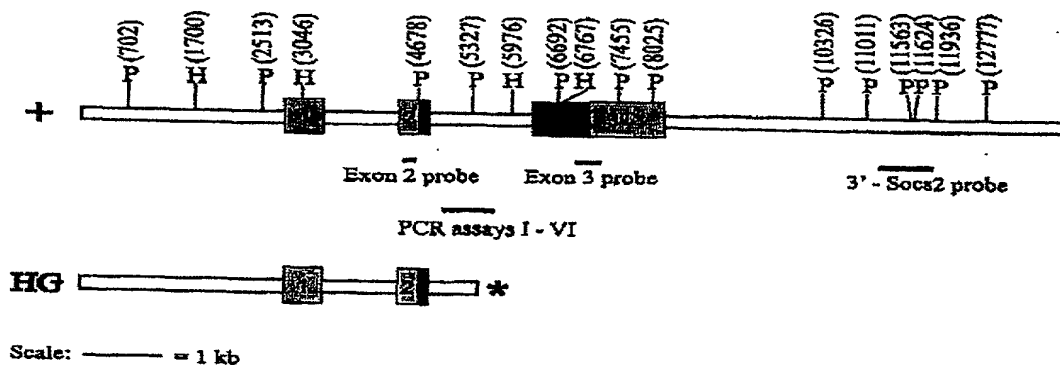


Fig 9a

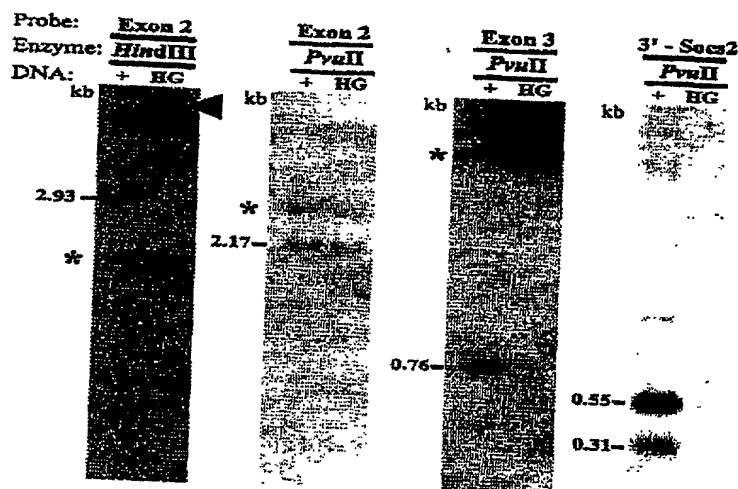


Fig 9b

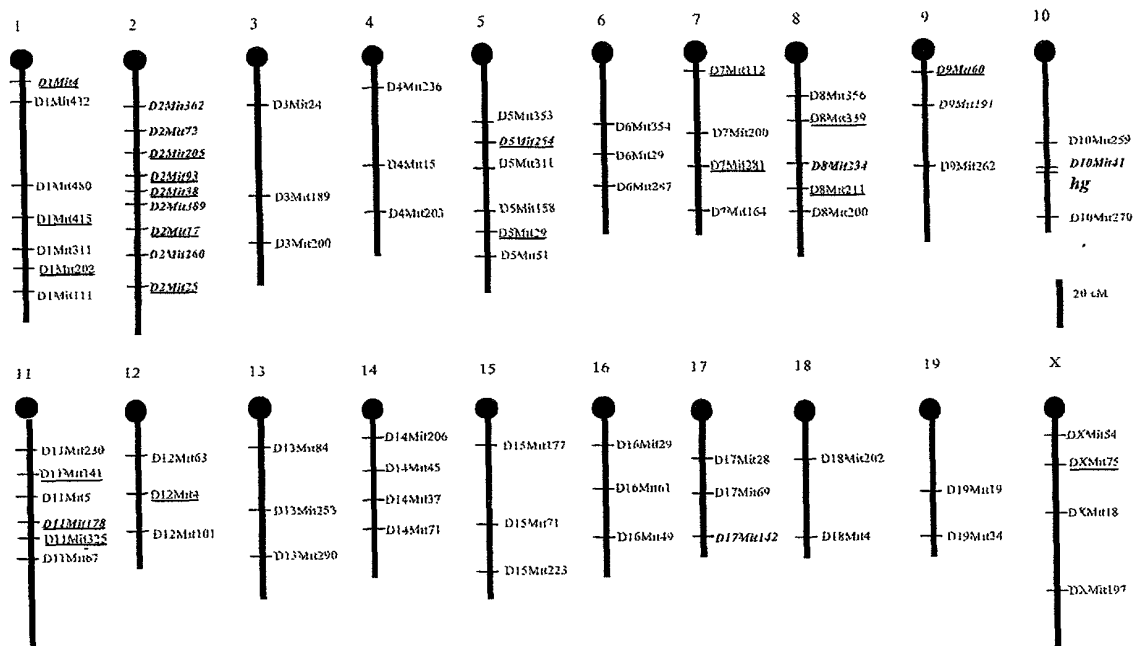


Fig. 10

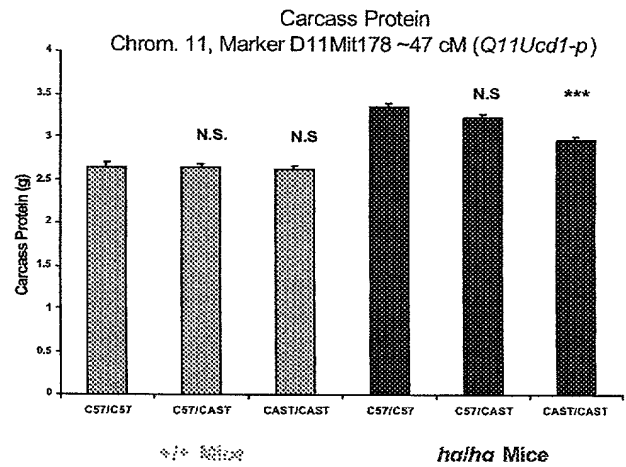
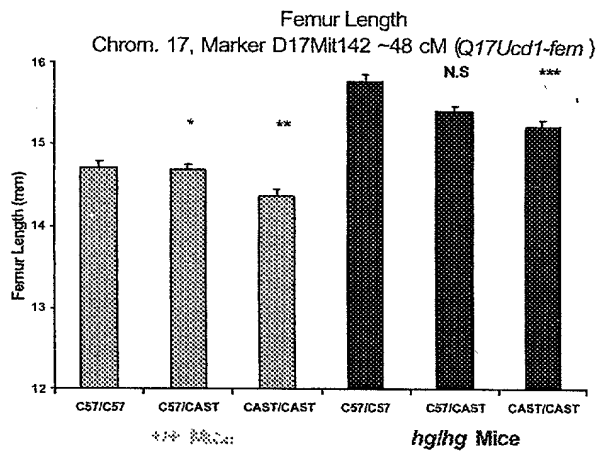
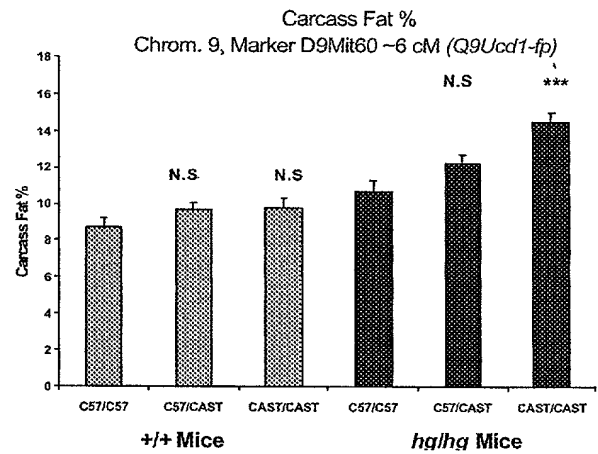
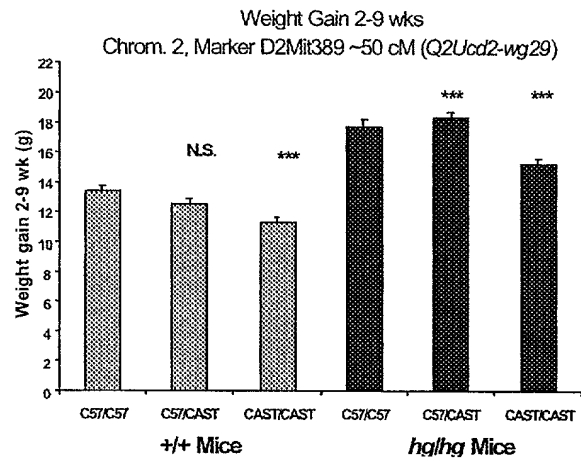
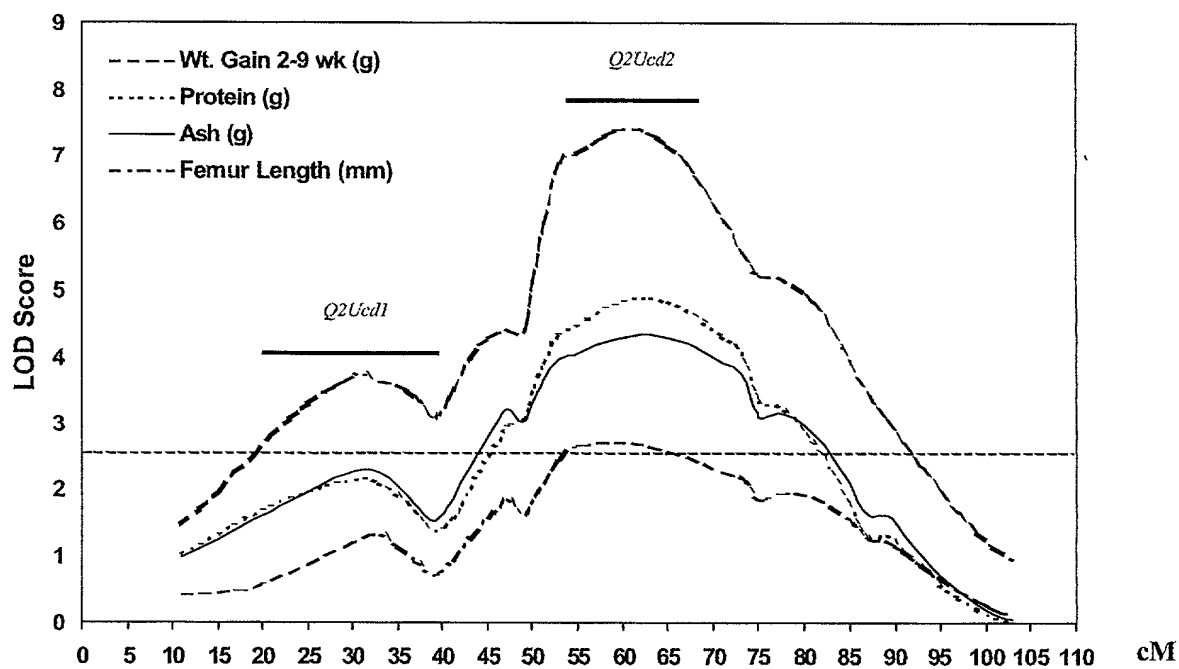


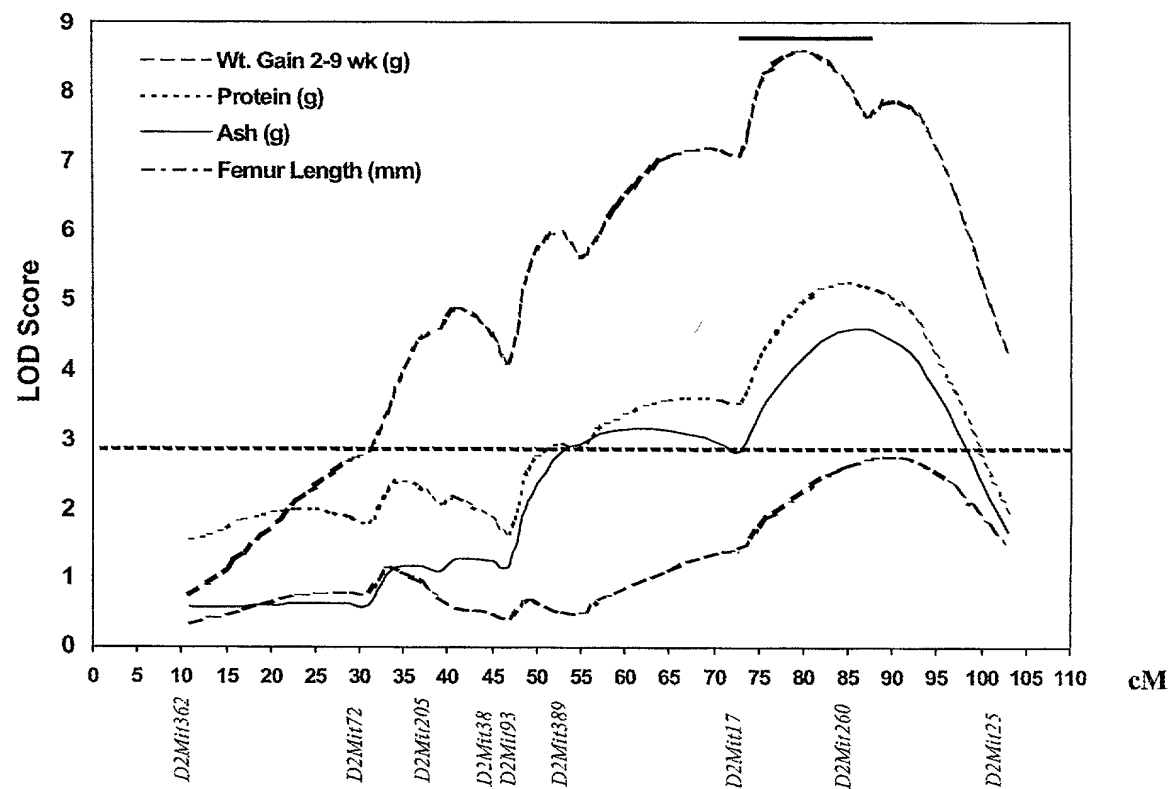
Fig. 11



**A: *hglhg* mice**



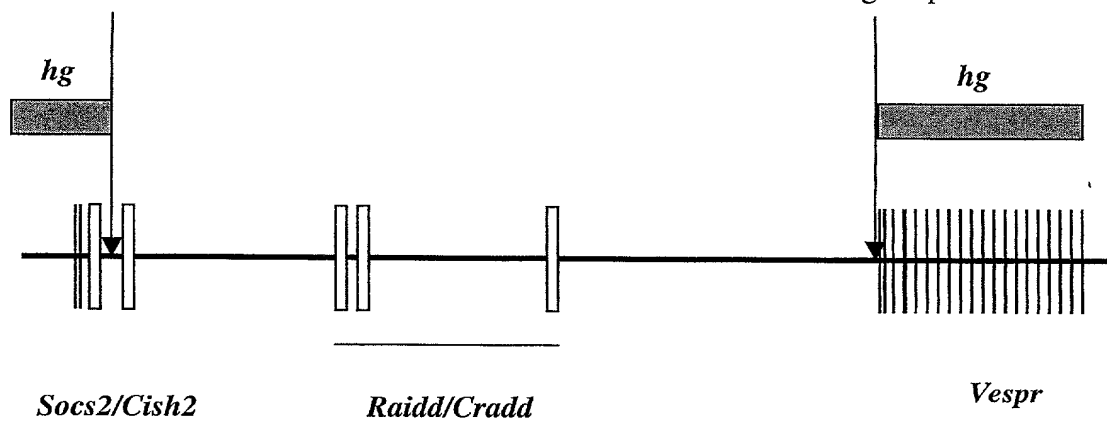
**B: *+/+* mice**



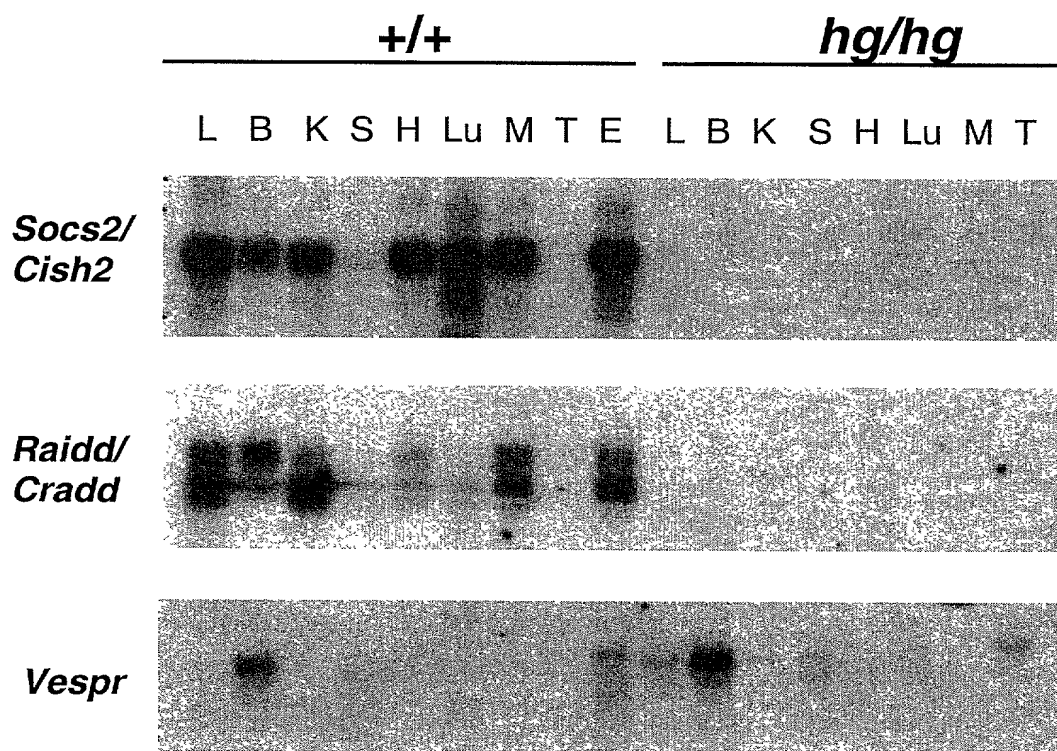
**Fig. 12**

Deletion breakpoint in  
intron 2 of *Socs2/Cish2*

Deletion breakpoint  
excluding *Vespr*



*Fig. 13*



*Fig. 14*